MAKWANA SAWANKUMAR B
Contact No: +91-7405459430, +91-8320286569
Email Id: sawanltz19@gmail.com

CAREER OBJECTIVE

To pursue a challenging career and be a part of progressive organization that gives a scope to enhance my knowledge and utilizing my skills towards the growth of the organization

EDUCATIONAL QUALIFICATIONS

Qualification	College/school Name	University /Board	Year of Passing	Percentage/CGPA
M.Tech (MECHATRONICS)	Vellore Institute of Technology	Vellore Institute of Technology	2020	8.71
B.E. (MECHANICAL)	Shri J.M.Sabva Institute of Engineering and Technology	GTU	2017	7.26
Higher Secondary (HSC)	Fatima Convent High School. Bhavnagar	GSHSEB	2013	65.38%
Secondary school (SSC)	The K.P.E.S English Medium School. Bhavnagar	GSHSEB	2011	76.4%

TECHNICAL SKILLS:
- Operating Systems: Windows
- Software Handled: MATLAB, NI-LabVIEW, KEIL, Arduino IDE, CarSim, RobotStudio, Fluid Sim, Automation studio.
- Programming Languages: Basics of C Programming.
- Boards/Microcontroller Handled: Arduino Uno and 8051.

PROJECTS
PG Projects (Major projects):

- **Title:** Condition monitoring on Gearbox.
  Learning Outcome: The project deals with the faults in the gear inside the bear box. Real-time condition monitoring on LabVIEW using the if-then rules of J48 algorithm. The vibration sensor used for acquiring the data.

- **Title:** Bearing Fault Diagnosis using the help of Vibration and Acoustics sensor
  Learning Outcome: This project aims to identify the faults in the bearing of the running system using different sensors and WEKA software to classify the defects. The 2 sensor data output are then compared and the better result is obtained.

PG projects (Minor projects):

- **Title:** CI Engine prediction using ANN
  Learning Outcome: Project deals with the concept of Engine's exhaust emission using BPNN, ELMAN & Radial Basic function.

- **Title**: Railway track failure detection.
  Learning Outcome: To identify the defect using and stop the train and send the image captured of the failure in track using MATLAB.

- **Title:** Automatic rain sensing wiper and window close.
  Learning Outcome: The project was mainly based on the real condition of the rain in an automobile vehicle. The rain intensity was measured to for the wiping action to take place at different speed. As the rainfall was detected the window will get closed.

- **Title:** Sheet metal cutting using the Pneumatic actuator.
  Learning Outcome: This project deals with the actuation using 2/2 valve. The purpose is to reduce the human effort and risk of accident.

- **Title:** Arduino based Data acquisition and regression analysis
  Learning Outcome: Measuring the light intensity and temperature of the room for optimal use of electricity.

- **Title** : Simulation of SCARA robot using MATLAB
  Learning Outcome: Designing the Manipulator circuit and implement the computer program for SCARA ARM ROBOT.

- **Title** : SCADA Screen for Nuclear Power Plant
  Learning Outcome: Designing the SCADA screen for Power plant with the help of Wonder-ware software to understand the process and to control from the screen.

- **Title** : Obstacle warning system for Blind People using Ultrasonic sensor
  Learning Outcome: The project is used for the blind people which helps them of obstacle coming near it with the help of a buzzer and vibration.

UG Project (Major):

- **Title:** Automatic Oil tin cleaning machine
  Learning Outcome: Project deals with the circular tin cleaning machine. it was made for the easy and quick cleaning of the oil tin for the reuse. The goal of this project was to understand the basics of the design and develop a new machine.

INTERNSHIP

- **At Basic Training Centre, Carriage Repair Workshop, Bhavnagar Para (W.R.) (July 2016)**
  Project: Different welding operation in a carriage body
  Learning Outcome: In this project we studied about the different welding methods and different welding to be done in the whole body and bogies in the locomotive carriage.

INTER PERSONAL SKILLS:

- Ability to rapidly build relationship and set up trust.
- Ability to cope up with different situations with patience.
- Confident and Determined.

WORKSHOPS /CO-CURRICULAR ACTIVITIES:

- 2 days' workshop on "MATLAB and LabVIEW" VIT Chennai.
- Participation certificate in International Level Quiz competition conducted by CADD Centre Training services PVT. LTD during September to October 2016.
- Participation certificate in technical event "Aashlesha Techfest 2015" held at GEC Bhavnagar.

INTEREST/HOBBIES

- Playing Volleyball
- Listening Music

DECLARATION:

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Date:

Place: Chennai   **MAKAWANA SAWAN B**